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The Claims Defining the Invention are as Follows:

1. A method of analysing an evolution of a biological system comprising the steps of:

- determining a series of variables upon which a state of the biological system depend;
- mapping the variables to an n-dimensional space;
- monitoring the evolution of the biological system utilising a trajectory formed from sets of the variables which define the states of the biological system at different times, thereby using time as a parameter in the n-dimensional space in a manner such that every point on the trajectory corresponds to at least one value of time; and
- evaluating the evolution of the biological system utilising sets of predetermined values of the variables to formulate an n-dimensional surface representing a predetermined state of the biological system within the n-dimensional space.

2. A method as claimed in claim 1 wherein the step of evaluating the evolution of the biological system comprises predicting a progression of the trajectory.

3. A method as claimed in anyone of the preceding claims, wherein n is an integer greater than 2.

4. A method as claimed in claim 2, wherein the prediction of the progression of the trajectory is based on other trajectories determined in the n-dimensional space.

5. A method as claimed in claims 2 or 4, wherein the prediction of the progression of the trajectory is based on other trajectories determined in the n-dimensional space.

6. A method as claimed in anyone of the preceding claims, wherein a speed along the trajectory is depicted along the trajectory.

7. A method of representing a predetermined state of a biological system comprising the steps of:

- determining a series of variables upon which the

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predetermined state of the biological system depends;

- mapping the variables to an n-dimensional space;

and

- utilising sets of predetermined values of the  
5 variables to formulate an n-dimensional surface describing  
the predetermined state within the n-dimensional space.

8. A computer arranged to analyse an evolution of a  
biological system based on series of variables upon which a  
state of the biological system depends, the computer being  
10 arranged to:

- map the variables to an n-dimensional space;

- monitor the evolution of the biological system  
based on a trajectory formed from sets of the variables  
which define the states of the biological system at  
15 different times; and

- evaluate the evolution of the biological system  
utilising sets of predetermined values of the variables to  
formulate an n-dimensional surface representing a  
predetermined state of the biological system within the n-  
20 dimensional space.

9. A computer as claimed in claim 8, wherein the  
evaluating comprises predicting a progression of the  
trajectory.

10. A computer as claimed in anyone of claims 8 to 9  
25 wherein n is an integer greater than 2.

11. A computer as claimed in claim 9, wherein the  
computer is arranged to base the prediction of the  
progression of the trajectory on the previous development  
of the trajectory within the n-dimensional space.

12. A computer as claimed in claims 9 or 11, wherein  
30 the computer is arranged to predict the progression of the  
trajectory on the basis of other trajectories determined in  
the n-dimensional space.

13. A computer as claimed in anyone of claims 8 to  
35 12, wherein the computer is further arranged to depict a

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speed of the trajectory along the trajectory.

14. A computer arranged to represent a predetermined state of a biological system based on a series of variables upon which the predetermined state of the biological system depends, the computer being arranged to:

- map the variables to an n-dimensional space; and
- formulate an n-dimensional surface describing the predetermined state within the n-dimensional space, based on sets of predetermined values of the variables.

15. A computer readable storage medium comprising instructions to control a computer to analyse an evolution of a biological system based on series of variables upon which a state of the biological system depends, the instructions comprising instruction to control the computer to:

- map the variables to an n-dimensional space;
- monitor the evolution of the biological system based on a trajectory formed from sets of the variables which define the states of the biological system at different times; and
- evaluate the evolution of the biological system utilising sets of predetermined values of the variables to formulate an n-dimensional surface representing a predetermined state of the biological system within the n-dimensional space.

16. A computer readable storage medium as claimed in claim 15, wherein the evaluating comprises predicting a progression of the trajectory.

17. A computer readable storage medium as claimed in anyone of claims 15 or 16, wherein n is an integer greater than 2.

18. A computer readable storage medium as claimed in claim 16, wherein the instructions further comprise instructions to control the computer to base the prediction of the progression of the trajectory on the previous

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development of the trajectory within the n-dimensional space.

19. A computer readable storage medium as claimed in claims 16 or 18, wherein the instructions further comprise  
5 instructions to control the computer to predict the progression of the trajectory on the basis of other trajectories determined in the n-dimensional space.

20. A computer readable storage medium as claimed in anyone of claims 15 to 19, wherein the instructions further  
10 comprise instructions to control the computer to depict a speed of the trajectory along the trajectory.

21. A computer readable storage medium comprising instructions to control a computer to represent a  
predetermined state of a biological system based on a  
15 series of variables upon which the predetermined state of the biological system depends, the instructions comprising instructions to control the computer to:  
- map the variables to an n-dimensional space; and  
- formulate an n-dimensional surface describing the  
20 predetermined state within the n-dimensional space, based on sets of predetermined values of the variables.

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